

PUNYA SACHDEVA

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PROFILE

Highly Passionate and Enthusiastic to learn and implement the theoretical and practical aspects of Neuroscience. I have Extensive knowledge of Neuropsychology, Psychotic Disorders and Neurodegenerative disorders. My aim is to enhance my skills and knowledge to find more efficient treatments to cure Neurological Disorders.

EDUCATION

- **Amity University, Uttar Pradesh**
B.Sc. (H) Neurosciences | 2019-2022
CGPA: 9.01 out of 10

EXPERIENCE

ONLINE INTERNSHIP (LEARN TO UPGRADE)

- **Virology and Covid-19 Research**
09-07-2021 to 02-08-2021
- **Stem cell and gene therapy Internship program**
08-06-2021 to 08-07-2021
- **Visvesvaraya National Institute of Technology, Nagpur-44010**
17-05-2021 to 07/06/2021

SUMMER INTERNSHIP

STUDENT INTERN

- **Saksham Rehabilitation And Research Centre, New Delhi**
August, 2020 - November

MEMBER

1. International Youth Neuroscience Association (IYNA)
2. Project Encephalon (PE)
3. Asian Pacific Society of Neurochemistry
4. Migraine Science Collaborative Research Society
5. International Society of Chronic Illness
6. GloNeuro Academy, Noida

CONFERENCES

- **Human Brain Project Student Conference, 2021**
- **3G International Psychology Conference, 2021**
(January 30th, 31st & 1st February)
- **The 3rd Annual Neuroscience emergencies in Stroke Symposium, Mayo Clinic**
(January 18, 2021)
- **International conference on Frontiers in Neuroscience and Neurochemistry: Dynamic Challenges and Approaches, Jamia Hamdard**
(10th -12th October, 2019)

SKILLS

- Electroencephalography (EEG), Functional MRI (fMRI), gene cloning strategies, Polymerase Chain Reaction, Isolation and purification of protein, Basics of Electrophoresis-Polyacrylamide and agarose gel electrophoresis, UV-Vis spectroscopy, Cell separation techniques (FACS) and Cell culture

PUBLICATIONS

- Ahmad F, **Sachdeva P**, Sachdeva B, et al. Dioxinohydroeckol: A Potential Neuroprotective Marine Compound Identified by In Silico Screening for the Treatment and Management of Multiple Brain Disorders [published online ahead of print, 2022 Dec 13]. *Mol Biotechnol.* 2022;10.1007/s12033-022-00629-3. doi:10.1007/s12033-022-00629-3
- **Sachdeva, P.**; Ghosh, S.; Ghosh, S.; Han, S.; Banerjee, J.; Bhaskar, R.; Sinha, J.K. Obesity as A Cause of Cancer. *Encyclopedia*. Available online: <https://encyclopedia.pub/entry/32553> (accessed on 07 November 2022).
- **Sachdeva P**, Ghosh S, Ghosh S, Han S, Banerjee J, Bhaskar R, Sinha JK. Childhood Obesity: A Potential Key Factor in the Development of Glioblastoma Multiforme. *Life*. 2022; 12(10):1673. <https://doi.org/10.3390/life12101673>
- Mukerjee, N., Al-Khafaji, K., Maitra, S., Suhail Wadi, J., **Sachdeva, P.**, Ghosh, A., Buchade, R. S., Chaudhari, S. Y., Jadhav, S. B., Das, P., Hasan, M. M., Rahman, Md. H., Albadrani, G. M., Altyar, A. E., Kamel, M., Algahtani, M., Shinan, K., Theyab, A., Abdel-Daim, M. M., ... Sharma, R. (2022). Recognizing novel drugs against Keap1 in Alzheimer's disease using machine learning grounded computational studies. *Frontiers in Molecular Neuroscience*, 15. <https://www.frontiersin.org/articles/10.3389/fnmol.2022.1036552>
- Mukerjee, N., Das, A., Maitra, S., Ghosh, A., Khan, P., Alexiou, A., Dey, A., Baishya, D., Ahmad, F., **Sachdeva, P.**, & Al-Muhanna, M. K. (2022). Dynamics of natural product Lupenone as a potential fusion inhibitor against the spike complex of novel Semliki Forest Virus. *PloS one*, 17(2), e0263853. <https://doi.org/10.1371/journal.pone.0263853>
- Sachdeva, B., and **Sachdeva, P.** 2022. "MXenes for Neurodegenerative Disorders." *Materials Today: Proceedings*. doi: 10.1016/j.matpr.2022.10.085.
- Ghosh, S., Sachdeva, B., **Sachdeva, P.** et al. Graphene quantum dots as a potential diagnostic and therapeutic tool for the management of Alzheimer's disease. *Carbon Lett.* (2022). <https://doi.org/10.1007/s42823-022-00397-9>
- Ahmad, F, **Sachdeva, P**, Sarkar, J, Izhaar, R. Circadian dysfunction and Alzheimer's disease – An updated review. *Aging Med.* 2022; 00: 1- 11. doi: 10.1002/agm2.12221
- **Sachdeva P**, Ahmad F. In silico characterization of predominant genes involved in early onset Alzheimer's disease. *J Neurobehav Sci.* 2021;8:179-190. doi:10.4103/jnbs.jnbs_34_21
- Ahmad, F, **Sachdeva, P.** A consolidated review on stem cell therapy for treatment and management of Alzheimer's disease. *Aging Med.* 2022; 00: 1- 9. doi: 10.1002/agm2.12216
- Ahmad, F, **Sachdeva, P.** Critical appraisal on mitochondrial dysfunction in Alzheimer's disease. *Aging Med.* 2022; 00: 1- 9. doi: 10.1002/agm2.12217
- **Sachdeva, P**, Mehdi, I, Kaith , R, Ahmad, F, Anwar, MS. Potential natural products for management of autism spectrum disorder. *ibrain.* 2022; 8: 365- 376. doi:10.1002/ibra.12050

ACHIEVEMENTS

- **Best Project Award 2022** | Amity University
- Presented infected Brain Model in National Level event on "**Great Innovation Challenge 2K19**" |15th October,2019
- Certificate of Excellent Performance in Covid-19 Awareness online Quiz by **Institution's Innovation Council, India** | 21 December; 2020